```
=> d his

     (FILE 'HOME' ENTERED AT 12:30:10 ON 01 DEC 2009)

     FILE 'REGISTRY' ENTERED AT 12:30:25 ON 01 DEC 2009
L1             1 S 32315-10-9/RN
L2             1 S 28721-07-5/RN
L3             1 S 28721-08-6/RN
L4             1 S 28721-09-7/RN
L5             1 S 4698-11-7/RN

     FILE 'CAPLUS' ENTERED AT 12:31:21 ON 01 DEC 2009
L6           872 S L2
L7          1742 S L1
L8             4 S L6 AND L7
L9             4 S L8 NOT (2009/SO OR 2008/SO OR 2007/SO OR 2006/SO)

=> d l1
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y
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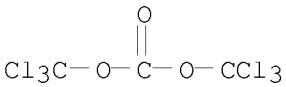
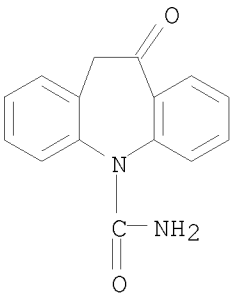
L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 32315-10-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methanol, 1,1,1-trichloro-, 1,1'-carbonate (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Carbonic acid, bis(trichloromethyl) ester (6CI, 8CI)
CN Methanol, trichloro-, carbonate (2:1) (9CI)
OTHER NAMES:
CN Bis(trichloromethyl) carbonate
CN Triphosgene
MF C3 Cl6 O3
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, GMELIN*, MEDLINE, MRCK*, MSDS-OHS, PROMT, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1732 REFERENCES IN FILE CA (1907 TO DATE)
14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1742 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 1 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo-
MF C15 H12 N2 O2
CI COM



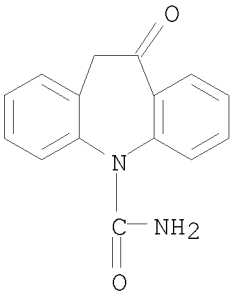
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

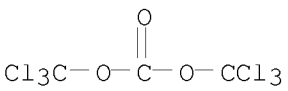
L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2009:800495 CAPLUS
DOCUMENT NUMBER: 151:56740
TITLE: Preparation of iminostilbene derivatives
INVENTOR(S): Milanese, Alberto
PATENT ASSIGNEE(S): Italy
SOURCE: Ital. Appl., 18pp.
CODEN: ITXXCZ
DOCUMENT TYPE: Patent
LANGUAGE: Italian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT 2004RM0260	A1	20040826	IT 2004-RM260	20040526
PRIORITY APPLN. INFO.:			IT 2004-RM260	20040526

OTHER SOURCE(S): CASREACT 151:56740
AB Treatment of 10-methoxyiminostilbene with triphosgene in toluene containing triethylamine afforded the N-chlorocarbonyl derivative, which underwent ammonolysis and subsequent hydrolysis to yield oxcarbazepine.
IT 28721-07-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of iminostilbene derivs.)
RN 28721-07-5 CAPLUS
CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



IT 32315-10-9, Triphosgene
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of iminostilbene derivs.)
RN 32315-10-9 CAPLUS
CN Methanol, 1,1,1-trichloro-, 1,1'-carbonate (CA INDEX NAME)



L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:1257994 CAPLUS
DOCUMENT NUMBER: 144:22826
TITLE: Process for the preparation of oxcarbazepine
INVENTOR(S): Milanese, Alberto
PATENT ASSIGNEE(S): Italy
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1600443	A1	20051130	EP 2004-425379	20040526
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
WO 2005118550	A1	20051215	WO 2005-EP3890	20050413
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1748988	A1	20070207	EP 2005-733290	20050413
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				

PRIORITY APPLN. INFO.: EP 2004-425379 A 20040526
WO 2005-EP3890 W 20050413

OTHER SOURCE(S): CASREACT 144:22826
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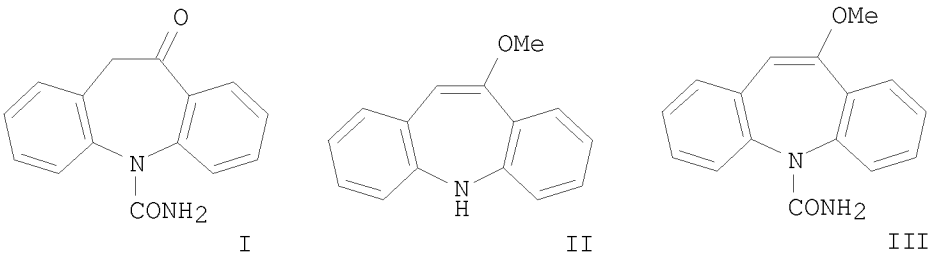
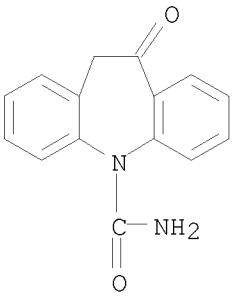


I II III

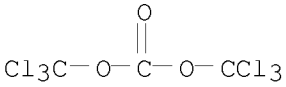
AB The preparation of oxcarbazepine (I) from 10-methoxyiminostilbene (II) is claimed. For example, 66.9 g of II, in presence of 34.92 g of Et3N in 800 mL of toluene, is gradually reacted with 32.67 g of triphosgene in 300 mL of toluene for 6 h at temperature of 10-15°. Next, 200 mL of 30% aqueous NH3 is added to the reaction mixture at room temperature, and after some hours, 69.0 g

of 10-methoxy-N-aminocarbonyliminostilbene (III) is obtained with purity > 95%. III is hydrolyzed by refluxing in 100 mL of 10% H2SO4, and after workup, 57.0 g of I is obtained.

IT 28721-07-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of oxcarbazepine from methoxyiminostilbene in three steps)
RN 28721-07-5 CAPLUS
CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



IT 32315-10-9, Triphosgene
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of oxcarbazepine from methoxyiminostilbene in three steps)
RN 32315-10-9 CAPLUS
CN Methanol, 1,1,1-trichloro-, 1,1'-carbonate (CA INDEX NAME)

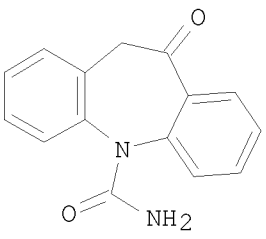


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

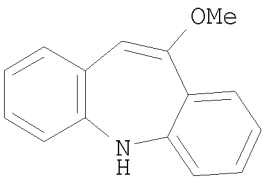
L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:1075777 CAPLUS
DOCUMENT NUMBER: 143:367224
TITLE: Process for preparing oxcarbazepine via chlorocarbonylation with triphosgene
INVENTOR(S): Banfi, Aldo; Bollini, Deborah; Serra, Maurizio; Di Lernia, Gianluca
PATENT ASSIGNEE(S): Clariant International Ltd., Switz.
SOURCE: PCT Int. Appl., 14 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005092862	A1	20051006	WO 2005-IB452	20050221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
IT 2004MI0452	A1	20040609	IT 2004-MI452	20040309
EP 1758867	A1	20070307	EP 2005-708576	20050221
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2007528385	T	20071011	JP 2007-502423	20050221
US 20070149507	A1	20070628	US 2006-580145	20060518
KR 2007031280	A	20070319	KR 2006-718221	20060907

PRIORITY APPLN. INFO.: IT 2004-MI452 A 20040309
IT 2004-2004 A 20040309
WO 2005-IB452 W 20050221
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 143:367224
GI



I



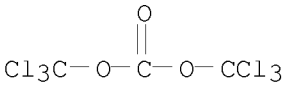
II

AB Process for preparing oxcarbazepine (I) via chlorocarbonylation of 10-methoxydibenzazepine precursor II with triphosgene as the chlorocarbonylating agent. Subsequent ammonolysis and final hydrolysis gave oxcarbazepine.

IT 32315-10-9, Triphosgene
RL: RCT (Reactant); RACT (Reactant or reagent)
(process for preparing oxcarbazepine via chlorocarbonylation with triphosgene)

RN 32315-10-9 CAPLUS

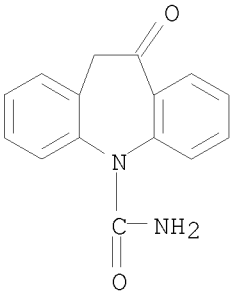
CN Methanol, 1,1,1-trichloro-, 1,1'-carbonate (CA INDEX NAME)



IT 28721-07-5P, Oxcarbazepine
RL: SPN (Synthetic preparation); PREP (Preparation)
(process for preparing oxcarbazepine via chlorocarbonylation with triphosgene)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:638851 CAPLUS
DOCUMENT NUMBER: 143:153307
TITLE: Novel process for preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine) via intermediate, 10-methoxy-5H-dibenz[b,f]azepine-5-carbonyl chloride
INVENTOR(S): Parenky, Chandrashekar; Chaturvedi, Rohit
PATENT ASSIGNEE(S): Amoli Organics Ltd., India
SOURCE: PCT Int. Appl., 12 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

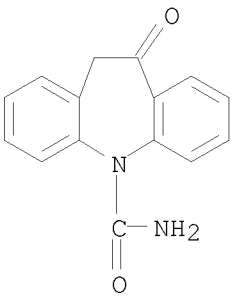
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066133	A2	20050721	WO 2004-IN322	20041015
WO 2005066133	A3	20051006		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
IN 2003MU01108	A	20050610	IN 2003-MU1108	20031020
EP 1678140	A2	20060712	EP 2004-820974	20041015
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
US 20070032647	A1	20070208	US 2006-576546	20060420

PRIORITY APPLN. INFO.: IN 2003-MU1108 A 20031020
WO 2004-IN322 W 20041015
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 143:153307
AB Novel process for preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine), known anticonvulsant drug, comprising the steps: (a) reacting 10-methoxy-5H-dibenz[b,f]azepine with bis(trichloromethyl) carbonate (BTC) and organic base such as aliphatic or aromatic tertiary amines in organic solvent, (b) conversion of the intermediate acid chloride to 10-methoxy-5H-dibenz[b,f]azepine-5-carboxamide using ammonia in organic solvent, (c) treating the intermediate with Lewis acid in an organic solvent at a temperature between 25°C to 80°C, preferably at 50°C to 70°C, and (d) isolating oxcarbazepine. The main objective of the invention was to provide a cost effective, safe and high yielding process for the production of 10-methoxy-5H-dibenz[b,f]azepine-5-carbonyl chloride from 10-methoxy-5H-dibenz[b,f]azepine without the use of phosgene gas.
IT 28721-07-5P, Oxcarbazepine
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine) via 10-methoxy-5H-dibenz[b,f]azepine-5-carbonyl chloride)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



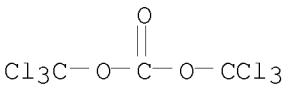
IT 32315-10-9, Bis(trichloromethyl) carbonate

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine) via 10-methoxy-5H-dibenz[b,f]azepine-5-carbonyl chloride)

RN 32315-10-9 CAPLUS

CN Methanol, 1,1,1-trichloro-, 1,1'-carbonate (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT